11) Publication number:

0 161 674

A3

12

EUROPEAN PATENT APPLICATION

(21) Application number: 85105951.9

(22) Date of filing: 14.05.85

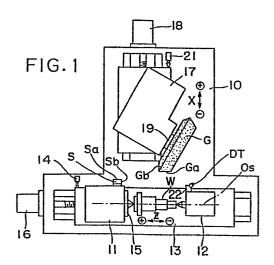
(5) Int. Cl.³: **G 05 B 19/18** B 24 B 5/01

- (30) Priority: 16.05.84 JP 99293/84 23.05.84 JP 105385/84
- (43) Date of publication of application: 21.11.85 Bulletin 85/47
- (88) Date of deferred publication of search report: 04.11.87
- (84) Designated Contracting States: DE FR GB

- 71) Applicant: TOYODA KOKI KABUSHIKI KAISHA 1-1, Asahi-machi Kariya-shi Aichi-ken(JP)
- (72) Inventor: Yoneda, Takao 4-tou, 10-gou, 5-1, Futamuradai Toyoake-shi Aichi-ken(JP)
- (72) Inventor: Sakakibara, Yasuii 4-63, Higashiyama-cho Hekinan-shi Aichi-ken(JP)
- (74) Representative: Wächtershäuser, Günter, Dr. **Tal 29** D-8000 München 2(DE)

64 Numerical control grinding machine.

(57) In a numerical control grinding machine, movements of a wheel head and a work table respectively in first and second directions perpendicular to each other are controlled by reference to first and second present position registers which respectively represent positions of cylindrical and shoulder grinding surfaces of a grinding wheel rotatably carried on the work head. A reference member is secured to the work table, and a wheel head reference point is defined on the wheel head. A memory device stores data which represents positions in the first and second directions, of the wheel head reference point relative to a workpiece rotational axis and the reference member when the wheel head and the work table are at respective original positions. The memory device further stores data which represents positions in the first and second directions, of the cylindrical and shoulder grinding surfaces relative to the wheel head reference point. When given a command after the present position registers lose their contents due to power failure or emergency stop, a central processing unit of a numerical controller for the machine calculates the present positions of the cylindrical and shoulder grinding surfaces based upon the stored data in the memory device and sets the present position registers respectively with the calculated present positions.





EUROPEAN SEARCH REPORT

Application number

EP 85 10 5951

DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate,			Relevant	CLASSIFICATION OF THE	
stegory		ant passages	to claim	APPLICATION (Int. Cl.4)	
х	paragraph 4, fro	ight-hand column, m "figure 1" - aragraph 3, last	1	G 05 B 19/18 B 24 B 5/01	
A	DE-A-3 316 321 DENKI) * Abstract; clai	- (TOKYO SHIBAURA ms 1-16; figure 2	2-5		
A	EP-A-O 081 217 (OERLIKON-BOEHRI * Whole document		1-3		
A	PATENT ABSTRACTS 7, no. 173 (M-23 July 1983; & JP- (TOYODA KOKI K.K	2)[1318], 30th A-58 77 450	3-5	TECHNICAL FIELDS SEARCHED (Int. Cl.4) G 05 B 19	
E	US-A-4 502 125 K.K.) * Column 4, line line 43; figures	42 - column 9,	1	B 24 B 5	
	·				
	The present search report has b	oeen drawn up for all claims			
		Date of completion of the search 28-07-1987	KLOS	Examiner	
Y : pa	CATEGORY OF CITED DOCU articularly relevant if taken alone articularly relevant if combined we occument of the same category ichnological background on-written disclosure	E : earlier pai after the fi ith another D : document L : document	ent document, ling date cited in the ap cited for other	rlying the invention but published on, or plication reasons	